PATENT APPLICATION NO. 10/030,452 ATTORNEY DOCKET NO. 58777.000008

Listing of the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claims 1-2 (Canceled)

Claim 3 (**Currently Amended**) The method of Claim 9 or 10, wherein the host cell is a prokaryotic cell or an eukaryotic cell.

Claim 4 (**Previously Presented**) The method of Claim 3, wherein the host cell is a microorganism.

Claim 5 (**Previously Presented**) The method of Claim 4, wherein the microorganism is *Escherichia coli*.

Claim 6 (**Currently Amended**) The method of Claim 9 or Claim 10, wherein the molecular weight of the polypeptide comprising a serine residue is about 1000 to 20000 daltons.

Claim 7 (Canceled)

Claim 8 (**Currently Amended**) The method of Claim 9 or Claim 10, wherein the atrial natriuretic peptide is human atrial natriuretic peptide.

Claim 9 (Cancelled)

Claim 10 (**Previously Presented**) A method for producing a polypeptide comprising a serine residue comprising:

- (i) culturing, in a medium, transformed host cells that produce a recombinant atrial natriuretic peptide comprising a serine residue and a byproduct polypeptide comprising an O-acetylserine residue in place of a serine residue in the atrial natriuretic peptide;
- (ii) adding at least 3 g/L methionine and at least one of at least 3 g/L histidine or at least 3 g/L glycine to the medium; and
- (iii) reducing the formation of said byproduct polypeptide,
 wherein the formation of said byproduct polypeptide is reduced in an
 amount greater than or equal to 50% as compared to a control medium
 with no methionine, histidine, or glycine added.

Claims 11-17 (Canceled)

Claim 18 (**Previously Presented**) A method for producing a polypeptide comprising a serine residue comprising:

- (i) culturing, in a medium, transformed host cells that produce a recombinant atrial natriuretic peptide comprising a serine residue and a byproduct polypeptide comprising an O-acetylserine residue in place of a serine residue in the atrial natriuretic peptide;
- (ii) adding at least one of at least 3 g/L histidine or at least 3 g/L glycine to the medium; and
- (iii) reducing the formation of said byproduct polypeptide,
 wherein the formation of said byproduct polypeptide is reduced in an
 amount greater than or equal to 50% as compared to a control medium
 with no histidine or glycine added.

Claims 19-26 (Canceled)

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Claim 27 (**Previously Presented**) The method of Claim 18, wherein the host cell is a prokaryotic cell or an eukaryotic cell.

Claim 28 (**Previously Presented**) The method of Claim 27, wherein the host cell is a microorganism.

Claim 29 (**Previously Presented**) The method of Claim 28, wherein the microorganism is *Escherichia coli*.

Claim 30 (**Previously Presented**) The method of Claim 18, wherein the molecular weight of the polypeptide comprising a serine residue is about 1000 to 20000 daltons.

Claim 31 (**Previously Presented**) The method of Claim 18, wherein the atrial natriuretic peptide is human atrial natriuretic peptide.

Claim 32 (**Currently Amended**) The method of Claim 18, further comprising adding an the amount of methionine effective to reduce formation of a byproduct polypeptide wherein said amount is at least 3 g/L.

Claims 33-36 (Canceled)